

Department of Public Works and Transportation

DIVISION OF SOLID WASTE SERVICES



Staff providing recycling tips to students at the Marvin J. Berman Hebrew School truck day event in June.

MONTHLY REPORT
JUNE 2000



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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, during the fiscal years to date (FY Total), and during the current calendar month in the two prior fiscal years. (County fiscal year 2000 began July 1, 1999.)

FACILITY	June FY 00	FY 00 Total	June FY 99	June FY 98
Materials Recycling Facility ⁽¹⁾	6,571 Tons	63,688 Tons	5,051 Tons	5,377 Tons
Brunswick Landfill Facility	13,184 Tons	141,140 Tons	15,620 Tons	12,180 Tons
American Ash Recycling ⁽²⁾	3,119 Tons	36,846 Tons	1,695 Tons	N/A
Resource Recovery Facility ⁽³⁾	42,691 Tons	497,557 Tons	48,275 Tons	35,003 Tons
Yard Trim Compost Facility	5,321 Tons	58,602 Tons	3,686 Tons	4,242 Tons

⁽¹⁾For FY00, MRF tons reported are outgoing. For previous years, incoming was reported.

⁽²⁾Tons shipped out to ash recycling facility during the indicated period. All tons so shipped are recycled.

⁽³⁾RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here. For FY00, these tonnages are preliminary, with adjustments made in the December and June monthly reports.

Revenue Analysis and Systems Evaluation - Reviewed monthly tonnage reporting for internal consistency. Mailed hauler reporting forms to all licensed haulers via certified mail. Provided additional data to consultant for Waste Generation Study. Reviewed first draft Nonresidential Waste Generation Rates Study. Responded to informational inquiries from ratepayers. Completed work on ACCESSTM-based system for recycling calculation report for use in the FY00 report. Completed 11-month revenue review. Circulated FY01 charge rates internally to assure proper solid waste charges on FY01 consolidated tax bills. Commented to attorney on solid waste law and regulation for future changes. Coordinated final review of FY00 depreciation schedule. Continued work on cost performance trend indicators. Reviewed capital equipment replacement and reserve requirement. Prepared additional responses to Office of Inspector General follow-up queries. Researched a new type of variable rate tag, drafted additional materials for Variable Rate Study, and drafted briefing to Council.

CITIZEN COMMITTEES

Facilities Implementation Group (FIG) – FIG did not meet in June. The next meeting will be scheduled for July 18 at 7:00 p.m.

Solid Waste Advisory Committee (SWAC) – SWAC met Tuesday, June 6, with nine SWAC members in attendance. The committee was briefed by County staff on three major programs: Revenue Analysis and Systems Evaluation, Refuse and Recycling Collection, and Transfer Station and Recycling Operations.

COLLECTIONS

Refuse- Refuse collections went as scheduled with no disruptions, but we continue to experience driver shortages across the board with the companies.

Recycling- Mixed Paper Recycling started in Area 4 on June 19 and Area 12 on June 26, adding another 35,295 homes to the program. This brings the current count to 142,526 or 72.49 percent of our customer population. Preparation work is in progress for the Mixed Paper start up in Areas 9 and 13, which will include the most western portion of Bethesda, Potomac, North Potomac and ending at Seneca Road. During the month of June, the Mixed Paper drop-offs received a total of 40,440 pounds of paper.

Contractor Performance –During the month of June, there were 34 complaints not resolved by the contractors. The County corrected all 34 issues. The number of complaints received in June 2000 totaled 751. This represents a 9.8 percent increase from June 1999, which had 684 complaints.

Enforcement Actions –For the month of June, 12 tickets were issued in the amount of \$6,500.00 for violations of County Solid Waste laws: 4 tickets were written for no covers in place in the amount of \$2,000.00, 2 tickets were written for no collection tag on vehicle in the amount of \$1,000.00, one ticket for permitting solid waste to accumulate in the amount of \$750.00, 1 ticket for no collector's license in the amount of \$750.00, 1 ticket for collecting solid waste before 7:00 a.m. in the amount of \$500.00, and one ticket was written for permitting solid waste to accumulate in the amount of \$500.00. Two tickets were written for failure to keep container doors closed for the amount of \$1,000.00. Sixty-six Notice of Violations (NOVs) were written for no covers in place, one NOV for failure to provide sufficient number of containers and one was written for leaving the vehicle running unattended.

Customer Service – For the month of June, there were 8,791 incoming calls with 57 follow-up calls as a quality control check and 736 other miscellaneous services handled by the Customer Service Staff. Also for the month of June, 2,380 recycle bins were delivered.

Volunteer Activities – During the month of June, Master Recycler/Composter Program Volunteers contributed 185 hours of service and reached approximately 3,689 residents. The volunteers handled 156 calls to the hotline. The incoming calls to the hotline were redirected to

the Customer Service Section and those requiring callbacks were then turned over to the Volunteer Program for action. Volunteer activities included five Mixed Paper drop-offs, two Household Hazardous Waste Collections and a Computer Recycling drop-off.

WASTE MINIMIZATION

Drop-off Programs – Bids for reusable shopping bags, to promote waste reduction, were reviewed and recommendation to award was sent to the Procurement Office.

Computer Recycling – The division held a computer recycling event at the Transfer Station on Sunday June 25. Approximately 3.5 tons of material was received at the event. Future computer recycling events are scheduled for July 16, September 17, October 8, October 22 and November 24.

Department of Environmental Protection's Home Composting and Source Reduction Activities – Full schedule of display ads for Grasscycling continues to run in the Gazette and Journal Newspapers.

Environmental gardening column (Green Man) with Gazette Newspapers continues.

Completed garden design for the gray water treatment mound at Linden Farm. Complete color plan and planting list can be viewed online at:

<http://www.co.mo.md.us/services/dep/Landscape/lindenfarm.htm>

Beginning development of composting print ads and artwork for fall placement in Journal and Gazette Newspapers. Artwork will also be incorporated into two comprehensive poster/brochures on composting and grasscycling to be developed this fall.

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste Collection – In June 25 citizens who could not attend the next scheduled event came to the Transfer Station to drop off household hazardous waste. Two HHW events were held, one at the Transfer Station and one at the NIH. There were 654 and 755 participants, respectively.

Small Quantity Generator (Ecowise) Program – One Ecowise event was held in June; 18 companies attended.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility – In June, the Continuous Emissions Monitoring System (CEM) indicated that all three units were running continuously throughout the month. Most of the time,

the units were running at 70 to 80 percent load. On June 24, the CEM sensors for stack emissions of Hydrogen Chloride (HCl), Sulfur Dioxide (SO₂) and Nitrogen Oxides (Nox) were down from 8 a.m. to 5 p.m. Repair work was completed swiftly and the sensors were operating by 5 p.m. Based on the economizer data, it was determined that the emissions were far below the air permit limits. With the exception of the CEM sensor problem, there was no other equipment malfunctions in June that affected unit operations or stack emissions.

This year, three code red days were forecasted so far, June 10, 11 and 18. The RRF was running at 70 percent load on all three days.

The set of ten CEM CD-ROMS was updated to include CEM data up to May 31, 2000. A new set of ten CD-ROMS containing stack emissions data from 15 stack tests (including November 1999 stack test) was generated. Copies of both CD-ROMS were placed in the Rockville and Poolesville libraries and distributed to DSWS staff and citizen committees, including SWAC and FIG.

As of June 30, the RRF has not received the "Title V Air Permit to operate" from MDE. The current operation permit will expire on October 31, 2000. Ogden has prepared the renewal application for review by the FIG Air Quality Sub-Committee in July. The application will be submitted to MDE in September 2000.

Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology – In June, the Leachate Thermal Treatment System (LTTS) operated for 20 days, evaporating, on the average, seven gallons of leachate per minute. The system was struck by lightning on June 22. The electrical wiring system was damaged and the facility was shutdown. BENTECH has been working on the site to repair and replace the damaged parts. The backup flare was turned on and was operating continuously until June 29 when the evaporator was back on.

BENTECH submitted to the County a contract amendment for implementing the electrical component of the project. DSWS staff is currently reviewing the contractor's submission.

Yard Trim Composting Facility: Consent Agreement Evaluation – In June, the last wet sampling event was conducted followed up by the summer dry sampling event. With this event, the field program concluded in June and ENSR is expected to complete the project report in August. DSWS plans to meet MDE in September to discuss the future course of action.

Facilities Implementation Group (FIG) Air Quality Sub-Committee – The Air Quality Sub-Committee of the Facilities Implementation Group (FIG) had its second meeting on June 14. Dr. Morton Goldman (SWAC), Abigail Lindstrom (SWAC-FIG) and Brad Crispell (Ogden) attended the meeting. Dr. Ramana Rao, the lead coordinator for the Committee and James Reynolds from the Solid Waste Services Division attended the meeting. Dr. Rao discussed several comments provided by Dr. Goldman on ENSR's methodology for updating the RRF Health Risk Assessment, and on the future need for sampling non-air media. The issue of dioxin was also discussed. Because of the increasing importance of the role of dioxins in the Health Risk Assessment, ENSR recommended that we obtain electronic files of the RRF stack test data from the vendors. This data is expected to be available by August 2000.

Updated CD-ROMs containing the CEM data from the RRF were distributed to SWAC (Dr. Goldman) and FIG (Abigail Lindstrom). The next meeting of the Sub-Committee is planned in fall 2000.

Contractual Work - ENSR continues work on updating the RRF Health Risk study, Cumulative Health Risk Study and Epidemiological Study. Draft reports on these topics are expected in FY01. RAS ENTERPRISES continues to update the weather station data.

RECYCLING

Public Outreach – The comprehensive 50 percent recycling campaign continues to run. Staff is writing and providing articles and artwork to community associations on recycling and especially the mixed paper recycling program for them to use in their association newsletters.

The SORRT business recycling awareness campaign continues. Response has been strong. Calls result from the campaign.

A partnership between the Division and the MCPS Department of Facilities Management has been formed to improve the MCPS recycling program and recycling rate throughout the County's public schools. Staff is a member of and provides technical assistance to the Recycling Committee formed by MCPS to provide guidance and oversight to their recycling efforts.

The web site address for the County's recycling program is www.MCRecycles.org. Other related web site addresses for specific County recycling programs are: www.SORRT.org and www.TRRAC.org. Improvements and additions to these sites are being made more quickly, and over the coming months additions and updates will be made.

Commercial Recycling and Waste Reduction – Staff participated in several events; attracting approximately 1,400 contacts. In addition to outreach events, SORRT Staff also focused its attention on conducting on-site visits at large paper generating companies. We have been assisting several property management companies to educate their tenants about site-specific recycling programs. In addition, we have developed a direct mailing system to notify tenants that they must take responsibility for complying with the County's recycling requirements. These notifications are followed by on-site visits, whereby, staff provide technical and educational-support. This system has proven to be very effective. Staff is continuing to offer its outreach services to the MCPS system. In fact, Staff recently supplied building service workers with educational packets, posters, stickers, and other resources pertaining to the MCPS recycling program. This opportunity allowed the SORRT Staff to reinforce its efforts and to insure that every one working in the school system is aware of the County's recycling requirements.

MCPS Recycling Activities – MCPS recycled 9 percent of its waste stream during the month of June.

Multi-Family Recycling – Staff continues to perform on-site evaluations of recycling programs, and work with property managers, and residents to provide assistance and support. The Division continues to solicit properties to participate in the bin effectiveness study. Staff will participate in numerous events at multi-family apartment and condominium communities over the summer to provide information on recycling. A campaign to increase awareness of the T.R.R.A.C. (Think Reduce and Recycle at Apartments and Condominiums) Program is under development, and is set to begin in September.

Mixed Paper Recycling – The follow-up telephone contact with residents approximately two weeks after their new service begins continues. This contact is designed to be a short, friendly phone call to ask people about their experience with the new mixed paper recycling program, and to provide assistance and answers. Over 16,000 contacts have been made so far, and the response from residents has been overwhelmingly positive. The refrigerator magnet reminding people of all the items collected for recycling at the curb and the vinyl stickers for blue bins were mailed to all those areas that had their mixed paper collection start prior to the creation of these materials. These items continue to be distributed to those remaining households, as their service comes on line. Additional quantities of the magnet and sticker are being produced, since some residents are requesting more.

PILOT PROGRAMS

Tubgrinding Pilot - Currently, there are about 777 yards of processed screened reject materials to be marketed. In June, 1,075 yards of screened reject materials was produced, bringing the total to be processed to 12,445 yards (4,742 tons). The material is being monitored daily and will be processed this coming winter.

Bagging Pilot - In June, 28,700 bags of leafgro were produced at the facility and 12,600 bags were shipped to distributors. At the transfer station, 8,800 bags of leafgro were shipped to distributors. In FY00, 354,263 bags of leafgro were produced and 228,013 bags were sold to distributors.

Ash Recycling Pilot - With the first year of a two-year pilot complete, more than 35,000 tons of ash have been recycled. The recycling fee for FY01 has been reduced slightly to \$39.42. Transportation remains the key factor in economic feasibility of long-term ash recycling. A full report of the first year of the pilot is planned by the end of the first quarter of FY01.

FACILITY ACTIVITIES

Resource Recovery Facility – The Facility operated all three units throughout the month. Unit load was managed between 100 and 70 percent to follow the best electric rates and to manage the refuse pit.

The Facility demonstrated its annual Maximum Generation Capacity on June 6, in accordance with the PEPCO agreement and protocol.

On June 7 and 8 PEPCO declared Minimum Generation status, and the Facility lowered its output accordingly. Approximately 59 Megawatt hours were lost during the period.

Approximately 1,742 tons of yard trim material were rail hauled.

Approximately 3,119 tons of ash were transported for recycling.

There were no reportable air or water quality excursions. The following reports were submitted:

- May 2000 Water Supply report to MDE.
- Waste Profile report on the characterization of ash to Brunswick Waste Management Facility, Inc. for their verification to the Virginia Department of Environmental Quality.
- Air emission data CD-ROMs were updated.

Ogden's regional environmental engineer reviewed operations data.

An oil spill from one of the overhead gantry cranes occurred on June 29. Response to the spill prevented off-site and minimized on-site impacts.

Approximately 15 Montgomery College students visited the Facility on June 28.

Materials Recovery Facility – Approximately 1,350 tons of old newspaper; 1,723 tons of commingled material; and 3,499 tons of mixed paper were shipped out after processing.

Design work continued for the west wing expansion.

Work was done to replace section of broken concrete sidewalks and install a handicap access closer to the entrance in front of the recycling center.

Oaks Landfill – The contractor for the Phase II closure construction, Barbella Environmental Technology, Inc., completed the 65-acre cap in the final Phase II areas. Barbella is approximately 95 percent complete with the construction work. Most of the remaining work consists of storm water drainage structures, road improvements, and final grading and stabilization of the site.

Cherry Hill Construction, the contractor for the Phase I closure construction (about 68 acres on the western side of the landfill), placed soil over the completed liner and geocomposite areas. Cherry Hill still has about 25 acres remaining to cap. Cherry Hill is also continuing work on several drainage structures. Construction is approximately 55 percent complete.

The gas migration problem on the north side of the landfill has been largely mitigated through the five extraction wells installed to address this problem. The situation continues to be closely monitored due to the persistent presence of methane in one of the wells.

Transfer Station – During June, Ogden Martin shipped via rail 45,990 tons of processible waste from the Transfer Station to the Resource Recovery Facility, 1,535 tons more than shipped in June 1999.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

Additional recycling boxes used at the Public Unloading Facility were repaired, scraped, and painted.

Work continued on correcting electrical problems affecting outdoor lighting. The contractor for the Nonprocessable Waste facility completed addressing structural steel punch list items and began painting the structural members of the facility. Once painting is complete, the siding for completion of the structure will be installed.

Atlantic Builders Group, Inc. poured concrete retaining walls at the future recycling container bays. Rock removal was performed along a planned storm water line and new access road near the rail yard.

Ogden is having the old caulking removed and replaced in all the joints on all the buildings' precast panels.

The auxiliary generator has been set on a concrete pad and some of the associated conduit runs have been installed.

Site 2 Landfill Properties – No division activity occurred at the site 2 properties. Mowing continued as needed.

Solid Waste Facilities Master Plan – Working with H & H Farms to maintain Linden Farm, Linden Park and the Popular Grove.

Yard Trim Compost Facility – Five thousand three hundred and twenty-one (5,321) tons of grass and no leaves were received at Dickerson for composting. Five thousand three hundred and twenty nine (5,329) cubic yards of Leafgro were sold in bulk.

Out-of-County Haul

Brunswick County, Virginia – During the month of June, about 9,682 tons of ash residue and 3,502 tons of nonprocessable waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc. Landfill in Brunswick County, VA. There were 1,354 tons of dirt, rock and wood were recycled at Clean Rock in Hagerstown, MD.

York, Pennsylvania – During the month of June, 3,119 tons of ash residue (back hauled by rail from the RRF) were shipped from the Transfer Station to American Ash Recycling in York, PA to be recycled into aggregate.

Linden Farm Renovations – The project has been completed. Under the proposed bagging agreement, the County is proposing to renovate the Feed Barn and Bank Barn by June 2001.

Phase I of the plantings to screen the Compost Facility from the Linden Farm is complete. C & C Farms has designed Phase II of the plantings to be done this fall.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste- 240/777-6400

Customer Service- 240/777-6410

Recycling Hotline- 301/590-0046 (Hours of operation: Mon. - Fri., 1:00 - 4:00 PM)

Transfer Station- 301/840-2370

Materials Recovery Facility- 301/417-1447- Maryland Environmental Service

Resource Recovery Facility- 301/349-5685 County Office
301/916-3031 Ogden Martin Systems of Montgomery

Yard Trim Compost Facility- 301/428-8185

DSWS Internet - www.MCRecycles.org

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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SOLID WASTE FACTS IN A NUTSHELL

<i>TOPIC OR FACILITY</i>	
Current Recycling Rate in Montgomery County	36%
Recycling Goal by 2000	50%
New Recycling Programs Scheduled for FY 00	Implementation of Residential Mixed Paper Collection
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 tpd on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (DCF)	Operations Limited to Receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY00 tons received- 58,602
# Residences receiving trash collection by County contractors	82,599
# Residences receiving collection of recyclables in blue bins and yard waste collection	195,405
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

GLOSSARY OF ACRONYMS

AAR	American Ash Recycling
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
CEM	Continuous Emissions Monitoring
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Financing Administration
HHW	Household Hazardous Waste
IFB	Invitation For Bid
IRS	Internal Revenue Service
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
MRF	Materials Resource Facility
MWH	Mega Watt Hours
NPDES	National Pollution Discharge Elimination System
OMB	Office of Management and Budget
PEPCO	Potomac Electric Power Company
"Red Wiggler"	Handicap Adult Development Group
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SCA	Sugarloaf Citizens Association
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
WM	Waste Management
YTCF	Yard Trim Composting Facility